

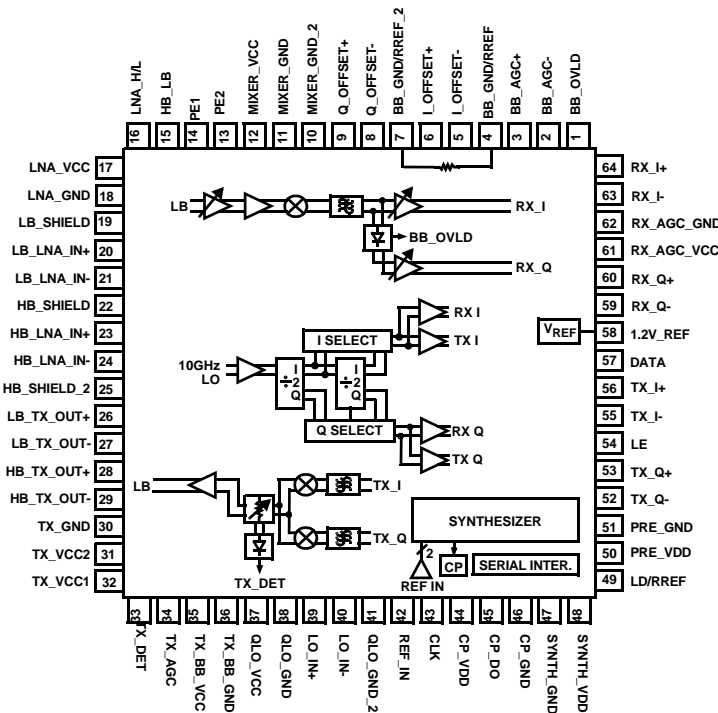
Dual Band Direct Conversion Transceiver



The Intersil ISL3690 is a highly integrated UHF2 process, DUAL BAND direct conversion transceiver and is part of a 2.4/5.2GHz, IEEE802.11a/b/g compliant radio chipset. The ISL3690 directly interfaces with Intersil's ISL3890 Medium Access Controller with Integrated Baseband processor. The addition of Intersil's ISL3990 power amplifier and ISL3090 10GHz VCO completes a WLAN transceiver application.

Pinout

**ISL3690 (QFN)
TOP VIEW**



Features

- Highly integrated Dual Band RF to baseband solution
- Frequency of operation . 2.4 to 2.5GHz or 5.15 to 5.35GHz
- Low supply operation 2.7 to 3.3V
- Noise figure 5.4dB
- TX OFDM Output Power -5dBm
- TX I/Q MTPR, PAR=12 -45dB
- RX Voltage gain 0 to 74dB
- RX I/Q MTPR, PAR=12, High Gain -35dB
- TX/RX switching speed <1µs
- Direct simple interface to ISL3890
- QFN Package:
 - Compliant to JEDEC PUB95 MO-220
 - QFN - Quad Flat No Leads - Package Outline
 - Near Chip Scale Package footprint, which improves PCB efficiency and has a thinner profile

Applications

- PC card wireless LAN adapters
- High data rate wireless LAN systems targeting IEEE802.11 a/b/g standards
- Spread spectrum Dual Band WLAN RF modems
- TDMA or CSMA packet protocol Dual Band radios
- PCI wireless LAN cards
- ISA, ISA PnP WLAN cards

Ordering Information

| PART NUMBER | TEMP. RANGE (°C) | PACKAGE | PKG. NO. |
|--------------|------------------|-----------|----------|
| ISL3690IR | -40 to 85 | 64 Ld QFN | L64.9x9 |
| ISL3690IR-TK | Tape and Reel | | |